Serial No.: 10/772,733

Docket No.: 02-3680

Responsive to Office Action dated July 10, 2006

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

We claim:

1. (Currently amended) A method for forming splines on a metallic tube, comprising the steps

of: (a) providing a metallic tube composed of Aluminum Association 2000, 5000, 6000, or 7000

series aluminum alloy and having properties corresponding to T4 temper; (b) heating said

metallic tube to a temperature sufficient to remove the T4 temper; (c) quenching said metallic

tube; (d) forming splines on said metallic tube; and (e) artificially aging said metallic tube.

2. (Cancelled)

3. (Currently amended) The method of claim 1 in which (a) includes selecting an the aluminum

alloy is selected from the group consisting of 6013, 6061 and 6063; 7003, 7108 and 7029.

4. (Currently amended) The method of claim 1 in which (a) includes providing tube formed by

extrusion.

5. (Original) The method of claim 1 in which (a) includes providing a drawn seamless tube.

Serial No.: 10/772,733

Docket No.: 02-3680

Responsive to Office Action dated July 10, 2006

6. (Original) The method of claim 1 in which (a) includes providing a tube formed from an

elongated sheet product that is rolled in a circular configuration and then welded to form a tube.

7. (Original) The method of claim 1 in which (b) includes heating said metallic tube to a

temperature between about 650° to about 1,000°F.

8. (Original) The method of claim 1 in which (b) includes heating said metallic tube in an electric

induction furnace.

9. (Original) The method of claim 1 in which (b) includes heating said metallic tube in an

induction coil.

10. (Original) The method of claim 1 in which (b) includes heating a said metallic tube in an

induction coil that covers at least 90% of the length of said metallic tube.

11. (Original) The method of claim 1 in which (b) includes rotating said metallic tube during the

heating process.

12. (Original) The method of claim 1 in which (b) includes heating only a section of said metallic

tube.

13. (Original) The method of claim 1 in which (b) includes heating two or more sections of said

metallic tube and there is a non-heated section between said two or more sections.

Serial No.: 10/772,733 Docket No.: 02-3680

Responsive to Office Action dated July 10, 2006

14. (Original) The method of claim 1 in which (c) includes quenching said metallic tube.

15. (Original) The method of claim 1 in which (c) includes quenching said metallic tube to

temperatures approaching and to room temperature.

16. (Original) The method of claim 1 in which (c) includes quenching said metallic tube in a tank

having a temperature less then about 212°F.

17. (Original) The method of claim 1 in which (c) includes quenching said metallic tube includes

immersion quenching, spray quenching and mist quenching.

18. (Original) The method of claim 1 in which (c) includes quenching said metallic tube using a

quenchant solution selected from the group consisting of water, polymer, air, gaseous quenchants

and combinations thereof.

19. (Original) The method of claim 1 in which (d) includes forming said splines within 16 hours

of said quenching if said metallic tubes are stored at room temperature.

20. (Original) The method of claim 1 in which (d) includes forming said splines within 8 hours of

said quenching if said metallic tubes are stored at room temperature.

21. (Original) The method of claim 1 in which (d) includes cooling said quenched metallic tube

Serial No.: 10/772,733

Docket No.: 02-3680

Responsive to Office Action dated July 10, 2006

below room temperature to retard natural aging.

22. (Original) The method of claim 1 in which (e) includes aging said tube at a temperature of at least 300°F for at least 5 hours.